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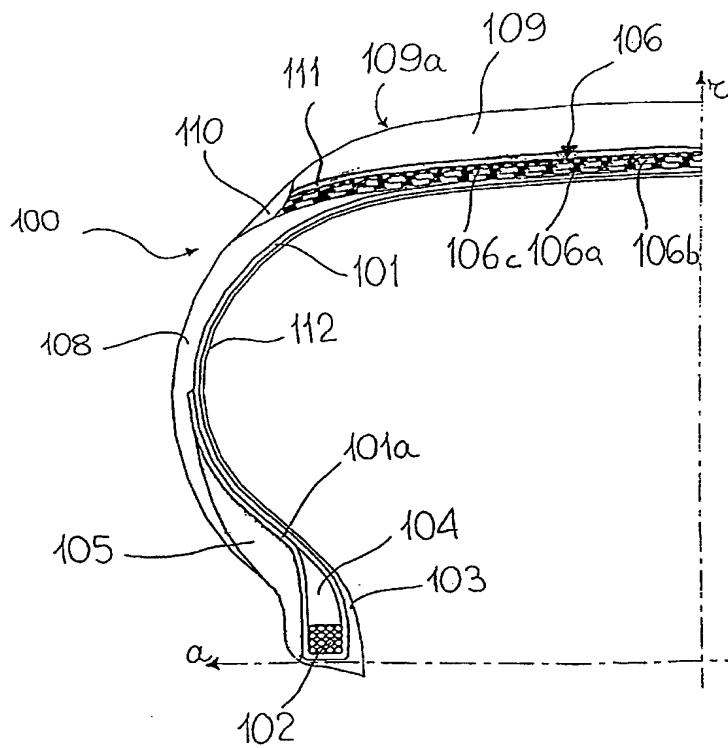
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(54) Title: HIGH-PERFORMANCE TYRE FOR VEHICLE WHEELS



(57) Abstract: Tyre (100) for vehicle wheels, comprising: - a carcass structure (101) shaped in a substantially toroidal configuration, the opposite lateral edges of which are associated with respective right-hand and left-hand bead wires (102) to form respective beads; - a belt structure (106) applied in a radially external position with respect to said carcass structure; - a tread band (109) radially superimposed on said belt structure; - at least one layer of crosslinked elastomeric material (111) applied in a radially internal position with respect to said tread band; - a pair of sidewalls (108) applied laterally on opposite sides with respect to said carcass structure; wherein said at least one layer of crosslinked elastomeric material has the following characteristics: - a dynamic elastic modulus (E'), measured at 70°C, not lower than 20 MPa, preferably of from 25 MPa to 50 MPa; - a ratio between tensile modulus at 100% elongation (M100) and tensile modulus at 10% elongation (M10) not lower than 1.5, preferably of from 2 to 5. Preferably said at least one layer of crosslinked elastomeric material is placed between said tread band and said belt structure.

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